08/9/3430 E CONTAINING

NOTICE TO COMPLY WITH REPUREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND AMINO ACID SEQUENCE DISCUSSIONES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821 -1.825 for the following reason(s): This application clearly fails to comply with the requirements of 37 CFR 1.821 1. Applicant's attention is directed to these regulations, published at 1114 OG 29. - 1.825. May 15, 1990 and at 55 FR 18230, May 1, 1990. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 CFR 1.821(c). A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e). A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing." The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CFR 1.825(d). The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 CFR 1.821(e). 7. Other: -Applicant must provide: An initial or substitute computer readable form (CRF) copy of the "Sequence isting" An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 CFR 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d) For questions regarding compliance with these requirements, please contact: For Rules Interpretation, call (703) 308-1123 For CRF submission help, call (703) 308-4212

Please return a copy of this notice with your response.

For PatentIn software help, call (703) 557-0400

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE The number/text at the end of each line "wrapped" down to the next line. Wrapped Nucleics This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping". The amino acid number/text at the end of each line "wrapped" down to the next line. Wrapped Aminos This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping". 3 ____ Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces. Misaligned Amino Acid The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs Numbering between the numbering. It is recommended to delete any tabs and use spacing between the numbers. 5 ____ Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text so that it can be processed. 6 Variable Length Sequence(s) contain n's or Xaa's which represented more than one residue. As per the rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing. ____ Patentln ver. 2:0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) . Normally, Patentln would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. _ Skipped Sequences Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence: (OLD RULES) (2) INFORMATION FOR SEQ ID NO:X: (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS") (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: This sequence is intentionally skipped Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s). Skipped Sequences Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence. (NEW RULES) <210> sequence id number <400> sequence id number Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing. (NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents. 11 ____ Use of <213>Organism Sequence(s) _____ are missing this mandatory field or its response. (NEW RULES) 12 ____ Use of <220>Feature Sequence(s) _____ are missing the <220>Feature and associated headings. (NEW RULES) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown" Please explain sourc of genetic material in <220> to <223> section. (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules) ____ Patentin ver. 2.0 "bug" Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).

Instead, please use "File Manager" or any other means to copy file to floppy disk.

AKS-Biotechnology Systems Branch- 5/15/99

T Swartz.

PAGE: 1

44

RAW SEQUENCE LISTING

PATENT APPLICATION US/08/913,430A

DATE: 05/14/1999

TIME: 14:10:17

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This Raw Listing contains the General Information Section and up to first 5 pages.

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PATENT APPLICATION US/08/913,430A TIME: 14:10:17

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RAW SEQUENCE LISTING

PAGE:

PAGE: 4

RAW SEQUENCE LISTING

PATENT APPLICATION US/08/913,430A

DATE: 05/14/1999 TIME: 14:10:17

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) use Xar card

Hoplain in

L2207-L2237

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Sequence Listing to ensure that a corresponding explanation is presented in the <220> to

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PAGE: 6

VERIFICATION SUMMARY DATE: 05/14/1999 PATENT APPLICATION US/08/913,430A TIME: 14:10:17 VERIFICATION SUMMARY

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